



FIRM-FILL® SCM-400 PLUS

Product Description

FIRM-FILL® SCM-400 PLUS is a high-performance double-sided sound control mat. Non woven fabric layer engineered to reduce impact noise between floors, it helps improve acoustical performance by absorbing and storing vibrational energy—effectively minimizing both airborne and structural sound transmission.

With a slim 3/8" (10 mm) core, SCM-400 PLUS is ideal for multi-family, wood-framed construction or any project where floor height is a concern.

Optimized for use with FIRM-FILL® Brand Gypsum Underlayments, this mat is your go-to solution for meeting sound control requirements without compromising floor height.

TECHNICAL DATA

PROPERTIES

Core Thickness (Nominal)	3/8" (10 mm) (Minimum Gypsum Thickness 1 1/4")
Width	60" (152.4 cm)
Area per Roll	360 ft² (33.4 m²)
Roll Weight	62 lbs (28.1 kg)

Related Products

FIRM-FILL® SCM-400 PLUS should be specified to use in conjunction with FIRM-FILL® Gypsum Underlayments. Hacker Industries, Inc. also supplies Hacker Reinforcement, FIRM-FILL® SCM Tape, Hacker Floor Sealer, Hacker Perimeter Isolation, and Hacker TopCoat® SP (Surface Prep). For more products, visit hackerindustries.com/products.shtml.

Compliance

- ICC-ESR-3386
- ICC-ESL-1452
- HUD 1255

Installation



1 Isolation strips are installed, then taped, around the perimeter of the whole room and around any vertical penetrations of the floor.



2 Lay down sound mat over the entire subfloor, colored side down.



3 Seams between sound mat rolls are adhered with tape.



4 Sound mat is topped with a Hacker Underlayment. For depth, please refer to Hacker Industries, Inc.'s *Thickness Guidelines*.



5 Finished floor coverings can be installed when the gypsum concrete is completely dry.

FIRM-FILL® SCM-400 PLUS



Code Compliant;
over 130 UL Listings



Ideal for light commercial and
multi-family construction



Lightweight and easy to
install correctly



Cost-effective way to address
noise concerns and improve
IIC ratings



Minimal deflection, no creep
or long-term degradation



Installed only by our trained
Licensed Applicators across
North America

Sound Testing & UL Fire Rated Designs

UL FIRE RATED DESIGNS

L006, L201, L202, L206, L208, L209, L210, L211, L212, L501, L502, L503, L504, L505, L506, L507, L508, L509, L510, L511, L512, L513, L514, L515, L516, L517, L518, L519, L520, L521, L522, L523, L524, L525, L526, L527, L528, L529, L530, L533, L534, L535, L536, L537, L538, L539, L540, L541, L542, L543, L545, L546, L547, L549, L550, L551, L556, L557, L558, L560, L562, L563, L564, L565, L569, L570, L573, L574, L576, L577, L579, L581, L583, L585, L587, L588, L589, L590, L592, L593, L598

M500, M501, M502, M503, M504, M505, M506, M508, M510, M511, M512, M515, M519

J917, J919, J920, J924, J931, J957, J991

G230, G516, G524, G529, G561, G565, G566, G568, G587, G595

Published acoustic and fire systems tests were conducted under controlled laboratory or field conditions and reflect results applicable only to those specific assemblies. For more information on acoustical assemblies, visit

<https://hackerindustries.com/pdfs/hacker-industries-acoustical-design-guide.pdf>.

Limitations

1. Do not use in exterior locations or below-grade.
2. Shall not be used without a FIRM-FILL® Gypsum Concrete Underlayment.
3. Do not install where continuous exposure to moisture is a possibility.
4. Structure shall be designed so that deflection does not exceed L/360 live or dead load. Certain floor coverings such as marble, limestone, travertine and wood may have more restrictive deflection limits. Consult the appropriate floor covering manufacturer for recommendations.
5. FIRM-FILL® SCM-400 PLUS shall be installed with a perimeter isolation strip.
6. Do not use mechanical fasteners to install FIRM-FILL® SCM-400 PLUS, as mechanical fasteners conduct impact sound, reducing acoustical isolation.
7. FIRM-FILL® SCM-400 PLUS is but one component of an effective sound and fire control system. Care must be taken in the installation of all components to assure the ultimate design performance.

WARNING

Laboratory tests are not a guarantee of field performance because of the issues noted above and many other design errors that may occur. Please consult a professional acoustical consultant to assure plans are proper and that the floor/ceiling assembly can perform to expectations.

NOTES

The information in this document is subject to change without notice. Hacker Industries, Inc., and/or its affiliates assume no responsibility for any errors that may inadvertently appear in this document. Consult Hacker Industries, Inc., for updated information.

WARRANTY

HACKER INDUSTRIES, INC. SHALL NOT BE LIABLE FOR INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES, DIRECTLY OR INDIRECTLY SUSTAINED, NOR FOR ANY LOSS CAUSED BY APPLICATION OF THESE GOODS NOT IN ACCORDANCE WITH CURRENT PRINTED INSTRUCTION OR FOR OTHER THAN THE INTENDED USE. OUR LIABILITY IS EXPRESSLY LIMITED TO REPLACEMENT OF DEFECTIVE GOODS. ANY CLAIMS SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN 30 DAYS FROM THE DATE IT WAS DISCOVERED. EXTENDED WARRANTY IS AVAILABLE ON THE HACKER INDUSTRIES, INC. WEBSITE.

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